

## SEQUENCE LISTING

<110> Mirkin, Chad A.
Letsinger, Robert L.
Mucic, Robert C.
Storhoff, James J.
Elghanian, Robert
Taton, Thomas A.
Garimella, Viswanadham
Li, Zhi
Park, So-Jung

<120> NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO AND USES THEREFOR

<130> 00-1272-C

<140> 09/927,777

<141> 2001-08-10

<150> 09/820,279 <151> 2001-03-28

1312 2001 03 20

<150> 09/760,500

<151> 2001-01-12

<150> 09/603,830

<151> 2000-06-26

<150> 09/344,667 <151> 1999-06-25

<150> 09/240,755

<151> 1999-01-29

<150> PCT/US97/12783

<151> 1997-07-21

<150> 60/031,809

<151> 1996-07-29

<150> 60/176,409

<151> 2000-01-13

<150> 60/192,699

<151> 2000-03-28

<150> 60/200,161

<151> 2000-04-26

<150> 60/213,906 <151> 2000-06-26

<150> 60/224,631 <151> 2000-08-11

<150> 60/254,392

<151> 2000-12-08

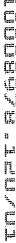
<150> 60/254,418

<151> 2000-12-08

<150> 60/255,235

<151> 2000-12-11

<150> 60/255,236 <151> 2000-12-11		
<150> 60/282,640 <151> 2001-04-09		
<160> 82		
<170> Microsoft Word 2000		
<pre>&lt;210&gt; 1 &lt;211&gt; 20 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence</pre>		
<220> <223> Description of Artific synthetic sequence	cial Sequence:random	
<400> 1 aaacgactct agcgcgtata		20
<210> 2 <211> 20 <212> DNA <213> Artificial Sequence		
<220> <223> Description of Artific synthetic sequence	cial Sequence:random	
<400> 2 atggcaacta tacgcgctag		20
<210> 3 <211> 16 <212> DNA <213> Artificial Sequence		
<220> <223> Description of Artific synthetic sequence	cial Sequence:random	
<400> 3 ccttgagatt tccctc	·	16
<210> 4 <211> 16 <212> DNA <213> Artificial Sequence		
<220> <223> Description of Artific synthetic sequence	cial Sequence:random	
<400> 4 gagggaaatc tcaagg		16
<210> 5 <211> 18 <212> DNA		



<213> Artificial Sec	quence			
<220> <223> Description of synthetic sequ		Sequence:random		
<400> 5 aacttgcgct aatggcga			•	18
<210> 6 <211> 26 <212> DNA <213> Artificial Sec	quence			
<220> <223> Description of synthetic sequ		Sequence:random		
<400> 6 aagttgcgct ttacggcta	aa tggcga		:	26
<210> 7 <211> 15 <212> DNA <213> Artificial Sec	quence	·		
<220> <223> Description of synthetic sequences		Sequence:random		
<400> 7 teteetteec tttte			:	15
<210> 8 <211> 15 <212> DNA <213> Artificial Sec	quence			
<220> <223> Description of synthetic sequences		Sequence:random		
<400> 8 gaaaagggaa ggaga			:	15
<210> 9 <211> 15 <212> DNA <213> Artificial Sec	quence	·		
<220> <223> Description o synthetic seq		Sequence:random		
<400> 9 cttttccctt cctct			:	15
<210> 10 <211> 28				

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 25
                                                                   23
tacgagttga gaatcctgaa tgc
<210> 26
<211> 25
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 26
                                                                   25
tacgagttga gacatcctga atgcg
<210> 27
<211> 24
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 27
                                                                   24
tacgagttga gaatcctgaa tgcg
<210> 28
<211> 12
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 28
                                                                   12 .
taggacttac gc
<210> 29
<211> 48
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 29
tacgagttga gaccgttaag acgaggcaat catgcaatcc tgaatgcg
                                                                   48
<210> 30
<211> 24
<212> DNA
```

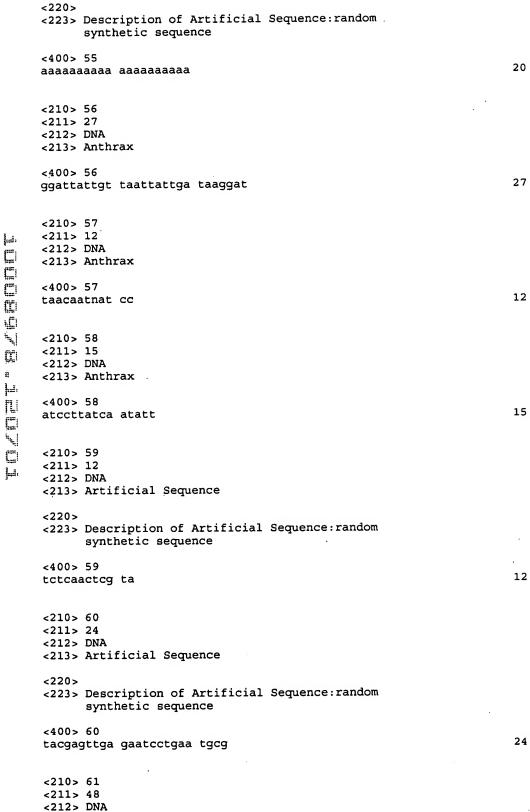
```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 30
                                                                   24
tgcatgattg cctcgtctta acgg
<210> 31
<211> 72
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 31
tacgagttga gaccgttaag acgaggcaat catgcatata ttggacgctt tacggacaac 60
atcctgaatg cg
<210> 32
<211> 48
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 32
gttgtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg
                                                                   48
<210> 33
<211> 12
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 33
                                                                   12
tctcaactcg ta
<210> 34
<211> 24
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 34.
                                                                    24
tacgagttga gaatcctgaa tgcg
<210> 35
<211> 12
```

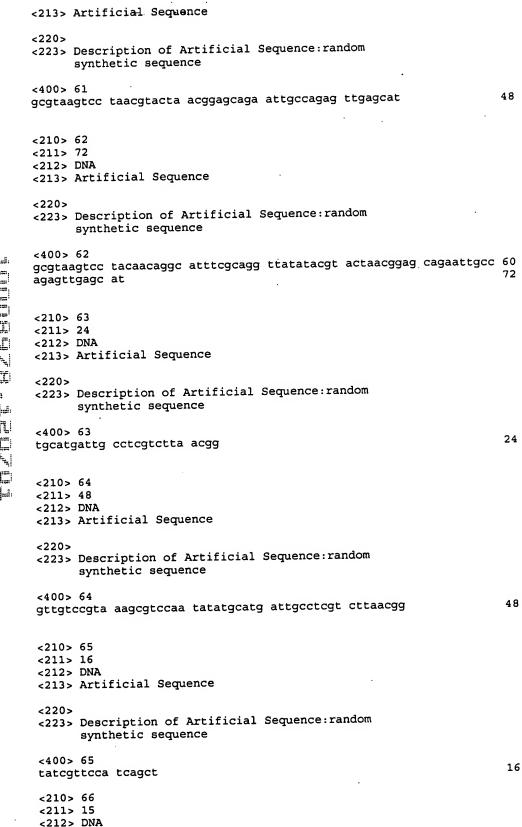
```
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 35
                                                                     12
cgcattcagg at
<210> 36
<211> 141
<212> DNA
<213> anthrax
<400> 36
ggcggatgag tcagtagtta aggaggctca tagagaagta attaattcgt caacagaggg 60
attattgtta aatattgata aggatataag aaaaatatta tccagggtta tattgtagaa 120
attgaagata ctgaagggct t
<210> 37
<211> 15
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 37
taacaataat ccctc
                                                                    15
<210> 38
<211> 15
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 38
atccttatça atatt
                                                                    15
<210> 39
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:random
      synthetic sequence
<400> 39
                                                                    30
tgagcctcct taactactga ctcatccgcc
<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence
```

	<220>		_	
	<223>	Description of Artificial	Sequence: random	
		synthetic sequence		
	400			
	<400>		2:	5
	tgttg	acgaa ttaattactt ctcta		_
			•	
	<210>	41		
	<211>	27		
	<212>	DNA		
	<213>	Artificial Sequence		
	<220>		-	
	<223>	Description of Artificial	Sequence:random	
		synthetic sequence		
	400	43		
	<400>	cctg gataatattt ttcttat	2	7
<del>4</del> 5:	tataa	city gataatattt ttettat	_	
==				
	<210>	42		
±=1 ===,	<211>			
= 1	<212>	DNA		
II	<213>	Artificial Sequence		
n <sub>2</sub>	<220>			
	<223>	Description of Artificial	Sequence: random	
T:		synthetic sequence		
•				
œf;	<400>		2	9
L	aagcc	cttca gtatcttcaa tttctacaa	2	,
	<210>	43		
4-	<211>			
	<212>			
<b></b> :		Artificial Sequence	•	
	12107			
	<220>		•	
		Description of Artificial	Sequence: random	
		synthetic sequence		
		-		
	<400>	43	_	_
	tctca	actcg taaaaaaaaa aa	2	2
	<210>			
	<211>			
	<212>			
	<213>	Artificial Sequence		
	<220>			
		Description of Artificial	Sequence:random	
	(2237	synthetic sequence		
		-1 2		
	<400>	44		
	tacga	gttga gaatcctgaa tgcg	2	4
	-			
			•	
	<210>			
	<211>		•	
	<212>			
	<213>	Artificial Sequence		

	<220> <223>	Description of Artificial synthetic sequence	Sequence:random	
•	<400>			22
	aaaaaa	aaaaa cgcattcagg at		22
	<210>			
	<211>			
	<212> <213>	Artificial Sequence		
	<220>			
		Description of Artificial synthetic sequence	Sequence:random	
	<400>	46		
už:	tctca	actcg taaaaaaaaa aa		22
	<210>	47		
	<211>	22	•	
T	<212>	DNA		
	<213>	Artificial Sequence	•	
#_   ###.	<220>	•		
		Description of Artificial	Sequence:random	
ZI	(223)	synthetic sequence		
	<400>	47		
T.		aaaaa cgcattcagg at		22
15. 15.	aaaaa	addad cycaccody as		
~;	<210>			
	<211>			
ud:	<212>			
	<213>	Artificial Sequence		
	<220>			
	<223>	Description of Artificial	Sequence:random	
		synthetic sequence	•	
	<400>	48		
	tacga	gttga gaatcctgaa tgcg		24
	<210>	49		
	<211>	24		
	<212>			
	<sub>.</sub> <213>	Artificial Sequence		
	<220>			
	<223	Description of Artificial	Sequence:random	
	12237	synthetic sequence	•	
	<400>	. 49		
		tagat ccgagtgccc acat		24
	ctact			
	<210>	50		
	<211>			
	<212>			
		Artificial Sequence		
		-		

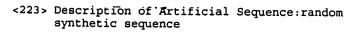
<2	20> 23> Description of Artificial Sequence:random synthetic sequence	
	00> 50 cattcagg at	12
~9	5455545	
<2	10> 51 '	
<2	11> 32	
	12> DNA	
<2	13> Artificial Sequence	
	20>	
<2	23> Description of Artificial Sequence:random synthetic sequence	
<4	00> 51	
	aaaaaaaa aaaaaaaaa cgcattcagg at	32
< 2	10> 52	
<u> </u>	11> 32	
F <2	12> DNA	
	13> Artificial Sequence	
- <sub></sub> < 2	20>	
[[] <2 	23> Description of Artificial Sequence:random synthetic sequence	
<4	00> 52	20
II co	cattcagg atwwwwwww wwwwwwww ww	32
<u> </u>	210> 53	
E <2	11> 12	
:	212> DNA	
P=' <2	213> Artificial Sequence	
	220>	
<2	23> Description of Artificial Sequence:random synthetic sequence	٠
<4	100> 53	
at	cctgaatg cg	12
	N10. E4	
	210> 54 211> 12	
	212> DNA	
	213> Artificial Sequence	
	220>	
	223> Description of Artificial Sequence:random	
``	synthetic sequence	
	100> 54	12
at	cctgaatg cg	12
راح (	210> 55	
	211> 20	
<2	212> DNA	
	213> Artificial Sequence	





	<400> Cgacaca	71 atag gtgaggtctg c		21
	<210> '<211> '<212> I	35 DNA		
	<213> /	Artificial Sequence		
		Description of Artificial synthetic sequence	Sequence:random	
	<400> aaaaaa	72 aaaa aaaaaaaaaa atccttatca	atatt	35
	<210>	73		
	<211>			
	<212> I			
	<213> 1	Artificial Sequence		
		Description of Artificial synthetic sequence	Sequence:random	
	<400>	73		
<u> </u>		ctcg taaaaaaaaa aa	•	22
12			•	
Zi	<210>			
 I	<211>			
· ·	<212> 1			
	<213>	Artificial Sequence		
	<220>			
		Description of Artificial synthetic sequence	Sequence:random	
	<400>	74		
122:	aaaaaa	aaaa cgcattcagg at		22
	<210>			
	<211> (212> )			
		Artificial Sequence		
		Description of Artificial synthetic sequence	Sequence: random	
	<400> aaaaaa	75 aaaa cgcattcagg at		22
	<210>	76		
	<211>			
	<212>	DNA		
	<213>	Artificial Sequence		
	<220>			
	<223>	Description of Artificial synthetic sequence	Sequence: random	
	<400>	76		
		ttga gaatcctgat tgcg		24
	J J	5 5 5		
	<210>	7 <b>7</b> · .		

	<211>		
	<212>		
	<213>	Artificial Sequence	
	<220>		
	<223>	Description of Artificial Sequence:random	
		synthetic sequence	
	<400>	•	
	aaaaa	aaaaa aaaaaaaaa atccttatca atatt	35
	<210>		
	<211>		
	<212>		
	<213>	Artificial Sequence	
	<220>		
	<223>	Description of Artificial Sequence:random	
. <b>.</b> 5.		synthetic sequence	
,			
-	<400>		
	aaaaa	aaaaa aaaaaaaaa taacaataat ccctc	35
===			
ere.	<210>	· ·	
	<211>		
CI.	<212>		
·***	<213>	Artificial Sequence	
I	<220>		
	<223>	Description of Artificial Sequence:random	
		synthetic sequence	
1	<400>		
1031	taata	tcctt cttataaaaa aaaaaaaaaa aaaaa	35
, z			
	<210>		
	<211>		
refi i	<212>		
	<213>	Artificial Sequence	
	<220>	Description of Artificial Sequence:random	
	(223)		
		synthetic sequence	
	<400>	90	
		atata accctaaaaa aaaaaaaaaa aaaaa	35
	Ctacac	atata accetadada dadadadada dadad	35
	<210>	Q1 .	
	<211>		
	<212>		
		Artificial Sequence	
	\4±3/	ALCITICIAL DEGLECICE	
	<220>		
		Description of Artificial Sequence:random	
	10000	synthetic sequence	
		by mence to be quence	
	<400>	81	
		aagga tattaaatat tgataaggat	30
	<210>	82	
	<211>		
	<212>		
		Artificial Sequence	
	-		
	<220>		



<400> 82 agggttatat tgtaggaggg attattgtta

30